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What is claimed is:

An antibody- toxic moiety conjugate comprising: an antibody that

5 specifically recognizes a molecule expressed only on activated T cells and a toxic
moiety.

- The antibody- toxic moiety conjugate of claim. 1, wherein the antibody
 is specifically reactive with CTLA4.
- The antibody- toxic moiety conjugate of claim 2, wherein the antibody is specifically reactive with human CTLA4.
- 4. The antibody- toxic moiety conjugate of <u>claim</u> 2, wherein the antibody is a monoclonal antibody.
- The antibody- toxic moiety conjugate of claim 2, wherein the antibody binds to a region of the CTLA4 molecule that blocks the binding of CTLA4 to CD80 or CD86.
- The antibody- toxic moiety conjugate of <u>claim 2</u>, wherein the antibody binds to a region of the CTLA4 in spatial proximity to the site of CTLA4 binding to a costimulatory molecule.

7. The antibody- toxic moiety conjugate of claim 2, wherein the substitution of amino acid 83 in the amino acid sequence of human CTLA4 shown in SEQ ID NO:2 results in modulation of binding of the antibody.

8. The antibody- toxic moiety conjugate of claim 2, wherein the toxic moiety is a carbohydrate.

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- The antibody- toxic moiety conjugate of claim 8, wherein the 9. carbohydrate is calicheamicin.
- The antibody- toxic moiety conjugate of claim 2, wherein the toxic 10. moiety is a naturally occurring bacterial product. 5
 - The antibody-toxic moiety conjugate of claim 10, wherein the toxic 11. moiety is selected from the group consisting of ricin A chain and saporin.

12. The antibody-toxic moiety conjugate of claim 2, wherein the antibody is 10 produced by a hybridoma selected from the group consisting of: ATCC Accession), ATCC Accession No.___ (hybridoma), ATCC (hybridoma Accession No.____ (hybridoma), A CC Accession No.____ (hybridoma), ATCC Accession No.____ (hybridoma ATCC Accession No.__ (hybridoma ATCC Accession No._ _ (hybridoma), ATCC Accession No. (hybridoma 15), and ATCC Accession No. (hybridoma

13. The antibody-toxic moiety conjugate of claim 2, wherein the antibody is humanized.

14. A humanized antibody that is specifically reactive with human CLTA4, Wherein the antibody comprises an amino acid sequence shown in SEQ ID NO:8.

15. A humanized antibody that is specifically reactive with human CLTA4, wherein the antibody comprises an amino acid sequence shown in SEQ ID NO:10. 25

16. A method of modulating the immune response comprising contacting a cell with an antibody- toxic moiety conjugate of claim 2.

17. The method of claim 16, wherein the antibody- toxic moiety conjugate is 30 administered to a subject and the step of contacting is performed in vivo.

- 18. The method of claim 17, wherein the subject is suffering from a disorder or condition that would benefit from downmodulation of an ongoing immune response wherein the disorder or condition is selected from the group consisting of: an autoimmune disorder, an immune response to a graft, an allergic response, an immune response to a therapeutic protein.
- 19. The method of claim 16, wherein the step of contacting is performed in vitro.

| 26. A method of modulating the immune response comprising contacting a |
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| cell with an antibody specifically reactive with CTLA4, wherein the antibody is |
| produced by a hybridoma selected from the group consisting of: ATCC Accession |
| No (hybridoma), ATCC Accession No (hybridoma), ATCC |
| Accession No (hybridoma), ATCC Accession No (hybridoma), |
| ATCC Accession No (hybridoma), ATCC Accession No (hybridoma |
|), ATCC Accession No (hybridoma), ATCC Accession No (hybridoma |
|), and ATCC Accession No (hybridoma). |
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| 21. A method of modulating the immune response comprising contacting a |
| cell with an antibody specifically reactive with human CLTA4, wherein the antibody |
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- 21. A method of modulating the immune response comprising contacting a cell with an antibody specifically reactive with human CLTA4, wherein the antibody comprises an amino acid sequence shown in SEQ ID NO:8.
- 2. A method of modulating the immune response comprising contacting a cell with an antibody specifically reactive with human CLTA4, wherein the antibody comprises an amino acid sequence shown in SEQ ID NO:10. 25
 - 23. A method of downmodulating the immune response comprising contacting a cell with an antibody-toxic moiety conjugate, wherein the antibody specifically recognizes CTLA4.

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